

10th French Physicists' Tournament



Problem 17 : graphite plasma lamp

When a graphite rod is placed in a microwave oven, one can observe plasma formation at the tip of the rod. Investigate the duration of the phenomenon and the influencing parameters (microwave power, rod geometry and material, volume of the containment bowl, etc). Investigate the duration of the plasma phase without burning the graphite rod: can we create an infinite lamp?

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maybe I shouldn't have put
my wand in the microwave...



experiment



report



oppose

